CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-08/419b/Cube/2017-18

16.10.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkasandra Govt., School old surrounding area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/159/2017-18 Dated: 22.07.2017
* Sample ID	:	Culvert Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.10.2017

CIVIL ENGINEERING TESTING LABORATORY www.civiltechconsultants.com

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.09.2017	16.10.2017	8.102	475.5	21.13
2	18.09.2017	16.10.2017	8.265	480.2	21.34
3	18.09.2017	16.10.2017	8.396	513.6	22.83

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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VIDYARANI P.K.
Technical Manager

AE-12

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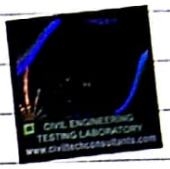
Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-08/419b/Cube/2017-18

19.10.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkasandra Govt., School old surrounding area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/159/2017-18 Dated: 22.07.2017
* Sample ID	:	Culvert Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.10.2017



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.09.2017	19.10.2017	8.315	506.3	22.50
2	21.09.2017	19.10.2017	8.480	512.9	22.80
3	21.09.2017	19.10.2017	8.290	528.5	23.49

*Information is furnished by the Customer/Representative.

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-08/419b/Cube/2017-18 19.10.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkasandra Govt., School old surrounding area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/159/2017-18 Dated: 22.07.2017
* Sample ID	:	Culvert Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.10.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.09.2017	19.10.2017	8.199	510.3	22.68
2	21.09.2017	19.10.2017	8.296	528.9	23.51
3	21.09.2017	19.10.2017	8.320	533.2	23.70

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-08/419b/Cube/2017-18

24.10.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of RCC drain at Chikkasandra Govt., School old surrounding area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/159/2017-18 Dated: 22.07.2017
* Sample ID	:	Culvert Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	24.10.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.09.2017	24.10.2017	8.112	475.5	21.13
2	26.09.2017	24.10.2017	8.298	496.3	22.06
3	26.09.2017	24.10.2017	8.356	510.4	22.68

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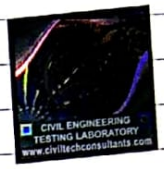
T-2377

28.09.2017

Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-08/419b/Precast slab/2017-18

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of RCC drain at Chikkasandra Govt., School old surrounding area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/159/2017-18 Dated: 22.07.2017
* Sample ID	:	Precast slab
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	23.09.2017
Date of Testing	:	28.09.2017



Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	77.00	0.382	2526.64	1.54	0.950	31.50	16.04	17.33	18.23	22.79
2	50.00	79.00	0.393	2533.59	1.58	0.955	32.95	16.78	18.12	17.30	21.63
3	50.00	82.00	0.408	2534.06	1.64	0.961	32.25	16.42	17.74	17.05	21.31

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